



# *Periodic Table* SCAVENGER HUNT

IN YOUR SCIENCE TEXTBOOK REFERENCE PAGES D 20 & 21, AS WELL AS D CHAPTER 1 FOR ASSISTANCE.

1. Define:
  - a. Period \_\_\_\_\_
  - b. group or family \_\_\_\_\_
  - c. metal \_\_\_\_\_
  - d. nonmetal \_\_\_\_\_
  - e. metalloid \_\_\_\_\_

2. What is a chemical symbol?

Why do some elements have symbols that don't use letters in the element's name?

Look at the six elements below and fill in their symbols.

NAME	SYMBOL	NAME	SYMBOL
Tungsten		Silver	
Potassium		Mercury	
Lead		Gold	

3. What does the term atomic number mean?

Look up the 5 following elements and list the atomic number of each element.

NAME	ATOMIC No.	NAME	ATOMIC No.
Gold		Hydrogen	
Mercury		Xenon	
Bromine		Iodine	

4. What does the term atomic mass mean?

NAME	ATOMIC MASS	NAME	ATOMIC MASS
Neodymium		Platinum	
Thallium		Radon	
Potassium		Calcium	

5. Look at the block from the Period Table below. Label the following: Atomic Number, atomic mass, chemical symbol, and the element's name.

**Carbon**

<b>6</b> <b>C</b> <b>12.011</b>
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6. What **state of matter** are most of the elements in the periodic table? \_\_\_\_\_
7. What are the only two elements that are liquids is room temperature? \_\_\_\_\_
8. Why are Noble Gases sometimes called the "Inert Gases"? \_\_\_\_\_

## THE *Periodic Table* TRENDS

Describe what happens to <b>reactivity</b> of the elements as you <b>go left to right</b> across the periodic table.	
Describe what happens to <b>atomic mass</b> as you go <b>left to right</b> across the periodic table.	
Describe what happens to <b>atomic mass</b> as you from <b>top to bottom</b> on a periodic table	
Describe what happens to <b>atom size</b> as you go from <b>top to bottom</b> on the periodic table.	
Describe what happens to <b>atom size</b> as you go from <b>left to right</b> on the periodic table.	

9. Complete the chart below:

THE <i>Transition</i> METALS			
Define transition metals			
Where are they on the Periodic table?			
List 3 examples:			

10. What are most elements: metals, non-metals or metalloids? \_\_\_\_\_

11. Complete the chart below:

THE <i>Metalloid</i> FAMILY			
Define metalloid			
List 3 properties of metalloids	<u>Property 1</u>	<u>Property 2</u>	<u>Property 3</u>

12. What feature on the Periodic Table separates the metals and non-metals?

\_\_\_\_\_

13. Complete the chart below:

THE <i>Halogen</i> FAMILY		
<i>Halogen</i> = from the Greek words meaning...		
Interesting Facts	They are the only family to have a solid, liquid AND gases in their family.	
Elements that are SOLID	Elements that are LIQUID	Elements that are GAS

14. Some elements are radioactive. What does this term mean? Name at least three radioactive elements. \_\_\_\_\_

Element 1) \_\_\_\_\_ Element 2) \_\_\_\_\_ Element 3) \_\_\_\_\_

15. Complete the chart below:

THE <i>Alkali</i> FAMILY	
List the elements that make up this family	
What happens when you combine these elements with water?	